INTERNAL CABLING

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/	B.Scotti 09/07/09		A. DRIMACA	24-09.09 V. VETORE	04.09.09	E. CINQUEPALMI 04/03/09	

DRAWING TITLE

AMS TCS

Wake Heater Thermostat cabling

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	DRAWING NUMBER	REV.
42-AMS02TCS-200.00.06.xls	42-AMS02TCS-200.00.00	42-AMS02TCS-200.00.06	/

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CABLING INFORMATION

IDENTIFICATION PARTS			REQUIREMENTS / TEST	
Item	DESCRIPTION	PART NUMBER	REQUIREMENTS	ACCORDING TO
TB1A	Terminal junction module 2x5 contact	M81714/2-DB1		
TB1B	Terminal junction module 2x5 contact	M81714/2-DB1		
TB2A	Terminal junction module 2x5 contact	M81714/2-DB1	**1) MANUFACTURING**	
TB2B	Terminal junction module 2x5 contact	M81714/2-DB1	1.1) SOLDER AND JOINT	ECSS-Q-70-08A
TB1_2A	Terminal junction module 2x5 contact	M81714/2-DB1	1.2) GENERAL ASSEMBLY	41-AMS02TCS-200.00.00 REV./
TB1_2B	Terminal junction module 2x5 contact	M81714/2-DB1	1.3) HARNESS ROUTING	
J124	Circular connector	MS27497E8F98P	1.4) HEATER GLUING	21-AMS-000.99.00 REV./
	Backschell	M85049/49-2-8N	**2) CRIMPING TEST**	ECSS-Q-70-26A
J224	Circular connector	MS27497E8F98P		
	Backschell	M85049/49-2-8N		
P126	Circular connector (cab)	MS27484E10F98S	**3) TEST RETENTION**	N.A.
	Backschell	M85049/49-2-10N		
J125	Circular connector (CAB_LHP Heater)	M27497E10F98P		
	Backschell	MS27506F10-2		
J225	Circular connector (CAB_LHP Heater)	M27497E10F98P	**4) ELECTRICAL TEST**	N.A.
	Backschell	MS27506F10-2		
P121	Circular connector PDS	MS27484E14F18PA		
	Backschell	M85049/49-2S-14N		
P221	Circular connector PDS	MS27484E14F18PA		
	Backschell	M85049/49-2S-14N		
HR1/1	Heater	1EFISG433001		
HR1/2	Heater	1EFISG433001		
HR1/3	Heater	1EFISG433001		
HR2/1	Heater	1EFISG434001		
HR2/2	Heater	1EFISG433001		
HR2/3	Heater	1EFISG433001		
HR3	Heater	1EFISG432001		

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AMS TCS

Wake Heater Thermostat cabling

CARLO GAVAZZI SPACE S.p.A.

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CABLING INFORMATION

IDENTIFICATION PARTS			REQUIREMENTS / TEST	
HR4	Heater	1EFISG431001		
HR5	Heater	1EFISG430001		
HR6	Heater	1EFISG430001		
HR7	Heater	1EFISG428001		
HR8	Heater	1EFISG430001		
HR9	Heater	1EFISG429001		
TH1/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH1/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH1/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH1/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH2/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH2/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH2/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH2/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH3/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH3/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH3/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH3/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH4/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH4/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH4/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH4/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH5/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH5/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH5/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH5/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH6/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH6/1AC	Thermostat	G311P641/03706S-58B-40/4/4/10		

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AMS TCS

Wake Heater Thermostat cabling

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	DRAWING NUMBER	REV.
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CABLING INFORMATION

IDENTIFICATION PARTS			REQUIREMENTS / TEST	
TH6/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH6/1BC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH6/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH6/2AC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH6/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH6/2BC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH7/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH7/1AC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH7/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH7/1BC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH7/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH7/2AC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH7/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH7/2BC	Thermostat	G311P641/03706S-58B-40/4/4/10		
TH8/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH8/1AC	Thermostat	G311P641/03706S-40B-22/4/4/10		
TH8/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH8/1BC	Thermostat	G311P641/03706S-40B-22/4/4/10		
TH8/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH8/2AC	Thermostat	G311P641/03706S-40B-22/4/4/10		
TH8/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH8/2BC	Thermostat	G311P641/03706S-40B-22/4/4/10		
TH9/1A	Thermostat	G311P641/03706S014A041/3/3/21		
TH9/1AC	Thermostat	G311P641/03706S-40B-22/4/4/10		
TH9/1B	Thermostat	G311P641/03706S014A041/3/3/21		
TH9/1BC	Thermostat	G311P641/03706S-40B-22/4/4/10		
TH9/2A	Thermostat	G311P641/03706S014A041/3/3/21		
TH9/2AC	Thermostat	G311P641/03706S-40B-22/4/4/10		

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AMS TCS

Wake Heater Thermostat cabling

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	DRAWING NUMBER	REV.
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IDENTIFICATION PARTS			REQUIREMENTS / TEST	
TH9/2B	Thermostat	G311P641/03706S014A041/3/3/21		
TH9/2BC	Thermostat	G311P641/03706S-40B-22/4/4/10		
HT1	Heater CAB_LHP	1EFISH686001		
HT2	Heater CAB_LHP	1EFISH686001		
HT3	Heater CAB_LHP	1EFISH686001		
HT4	Heater CAB_LHP	1EFISH686001		
RES_1	Resistor LHP HR1/HR2 A	RER45F7870RC02		
RES_2	Resistor LHP HR1/HR2 B	RER45F7870RC02		
RES_3	Resistor LHP HR3/HR4 A	RER45F7870RC02		
RES_4	Resistor LHP HR3/HR4 B	RER45F7870RC02		

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CONNECTION IDENTIFICATION DATA

FROM TB1/2A			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	TB1_2A	REMARKS	J124	TH1/1 A	TH1/2 A	TH2/1 A	TH2/2 A	P126 CAB			REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
AH_OUT 8	A	2) - 9)	B								1) - 11)		TP AWG 20	TP1	
AH_OUT 8	B	2) - 9)		2							4) - 9)		TP AWG 20	TP5	
AH_OUT 8	C	2) - 9)				2					4) - 9)		TP AWG 20	TP6	
CAB BUS A	D	2) - 9)						A			3) - 11)		TP AWG 20	TP3	
SPARE	E	7)													
AH_OUT 8 RTN	F	2) - 9)	A								1) - 11)		TP AWG 20	TP1	
AH_OUT 8 RTN	G	2) - 9)			2						4) - 9)		TP AWG 20	TP5	
AH_OUT 8 RTN	H	2) - 9)					2				4) - 9)		TP AWG 20	TP6	
CAB BUS A RTN	J	2) - 9)						B			3) - 11)		TP AWG 20	TP3	
SPARE	K	7)													

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AMS TCS

Wake Heater Thermostat cabling

CARLO GAVAZZI SPACE S.p.A.

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CONNECTION IDENTIFICATION DATA

FROM TB1_2B			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	TB1_2B	REMARKS	J224	TH1/1 B	TH1/2 B	TH2/1 B	TH2/2 B	P126 CAB			REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BH_OUT 8	A	2) - 9)	B								1) - 11)		TP AWG 20	TP2	
BH_OUT 8	B	2) - 9)		2							4) - 9)		TP AWG 20	TP7	
BH_OUT 8	C	2) - 9)				2					4) - 9)		TP AWG 20	TP8	
CAB BUS B	D	2) - 9)						C			3) - 11)		TP AWG 20	TP4	
SPARE	E	7)													
BH_OUT 8 RTN	F	2) - 9)	A								1) - 11)		TP AWG 20	TP2	
BH_OUT 8 RTN	G	2) - 9)			2						4) - 9)		TP AWG 20	TP7	
BH_OUT 8 RTN	H	2) - 9)					2				4) - 9)		TP AWG 20	TP8	
CAB BUS B RTN	J	2) - 9)						D			3) - 11)		TP AWG 20	TP4	
SPARE	K	7)													

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Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM J124			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	J124	REMARKS	TB1_2 A								REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
AH_OUT 8 RTN	A	1) - 11)	F								2) - 9)	1	TP AWG 20	TP1	
AH_OUT 8	B	1) - 11)	A								2) - 9)	1	TP AWG 20	TP1	
Spare	C	6)													

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Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM J224			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	J224	REMARKS	TB1_2 B								REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BH_OUT 8 RTN	A	1) - 11)	F								2) - 9)	1	TP AWG 20	TP2	
BH_OUT 8	B	1) - 11)	A								2) - 9)	1	TP AWG 20	TP2	
Spare	C	6)													

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AMS TCS

Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM P126 CAB			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	P126	REMARKS	TB1_2 A	TB1_2 B							REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A +	A	3) - 11)	D								2) - 9)	1	TP AWG 20	TP3	
BUS A RTN	B	3) - 11)	J								2) - 9)	1	TP AWG 20	TP3	
BUS B +	C	3) - 11)		D							2) - 9)	1	TP AWG 20	TP4	
BUS B RTN	D	3) - 11)		J							2) - 9)	1	TP AWG 20	TP4	
SPARE	E	8)													
SPARE	F	8)													

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AMS TCS

Wake Heater Thermostat cabling

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	PARTS LIST NUMBER	REV.
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CONNECTION IDENTIFICATION DATA

FROM J125			TO CAB_LHP Heaters									WIRE / CABLE INFORMATION			
SIGNAL NAME	J125	REMARKS	RES_1	RES_2	HT1	HT2	HT3	HT4			REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
AH_OUT11_RTN (BUS A)	A	10) - 11)	1								9) - 13)	2	TP AWG 24	TP53	
AH_OUT11 (BUS A)	B	10) - 11)				1					5) -9)- 12)	2	TP AWG 24	TP53	
AH_OUT11 (BUS A)	C	10) - 11)						1			5) -9)- 12)	2	TP AWG 24	TP54	
SPARE	D	6)													
SPARE	E	6)													
AH_OUT11_RTN (BUS A)	F	10) - 11)		1							9) - 13)	2	TP AWG 24	TP54	
	HT1														
	1	5) -9)- 12)	2								9) - 13)	2	AWG 24		
	2	5) -9)- 12)				2					5) -9)- 12)	2	AWG 24		
	HT3														
	1	5) -9)- 12)		2							9) - 13)	2	AWG 24		
	2	5) -9)- 12)						2			5) -9)- 12)	2	AWG 24		

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AMS TCS

Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM J225			TO CAB_LHP Heaters									WIRE / CABLE INFORMATION			
SIGNAL NAME	J225	REMARKS	RES_3	RES_4	HT1	HT2	HT3	HT4			REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BH_OUT11_RTN (BUS B)	A	10) - 11)	1								9) - 13)	2	TP AWG 24	TP55	
BH_OUT11 (BUS B)	B	10) - 11)			3						5) -9)- 12)	2	TP AWG 24	TP55	
BH_OUT11 (BUS B)	C	10) - 11)					3				5) -9)- 12)	2	TP AWG 24	TP56	
SPARE	D	6)													
SPARE	E	6)													
BH_OUT11_RTN (BUS B)	F	10) - 11)		1							9) - 13)	2	TP AWG 24	TP56	
	HT2														
	3	5) -9)- 12)	2								9) - 13)	2	AWG24		
	4	5) -9)- 12)			4						5) -9)- 12)	2	AWG24		
	HT4														
	3	5) -9)- 12)		2							9) - 13)	2	AWG24		
	4	5) -9)- 12)					4				5) -9)- 12)	2	AWG24		

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AMS TCS

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CONNECTION IDENTIFICATION DATA

FROM TB1A			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	TB1A	REMARKS	TH1/1 A	HR1/1	HR1/2	HR1/3	TH1/2 A				REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
AH-OUT 8	A	2) - 9)	1								4) - 9)		TP AWG 20	TP9	
AH-OUT 8	B	2) - 9)		1							5) - 9)		TP AWG 20	TP10	
AH-OUT 8	C	2) - 9)			1						5) - 9)		TP AWG 20	TP11	
AH-OUT 8	D	2) - 9)				1					5) - 9)		TP AWG 20	TP12	
SPARE	E	7)													
AH-OUT 8 RTN	F	2) - 9)					1				4) - 9)		TP AWG 20	TP9	
AH-OUT 8 RTN	G	2) - 9)		2							5) - 9)		TP AWG 20	TP10	
AH-OUT 8 RTN	H	2) - 9)			2						5) - 9)		TP AWG 20	TP11	
AH-OUT 8 RTN	J	2) - 9)				2					5) - 9)		TP AWG 20	TP12	
SPARE	K	7)													

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AMS TCS

Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM TB1B			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	TB1B	REMARKS	TH1/1 B	HR1/1	HR1/2	HR1/3	TH1/2 B				REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BH_OUT 8	A	2) - 9)	1								4) - 9)		TP AWG 20	TP13	
BH_OUT 8	B	2) - 9)		3							5) - 9)		TP AWG 20	TP14	
BH_OUT 8	C	2) - 9)			3						5) - 9)		TP AWG 20	TP15	
BH_OUT 8	D	2) - 9)				3					5) - 9)		TP AWG 20	TP16	
SPARE	E	7)													
BH_OUT 8 RTN	F	2) - 9)					1				4) - 9)		TP AWG 20	TP13	
BH_OUT 8 RTN	G	2) - 9)		4							5) - 9)		TP AWG 20	TP14	
BH_OUT 8 RTN	H	2) - 9)			4						5) - 9)		TP AWG 20	TP15	
BH_OUT 8 RTN	J	2) - 9)				4					5) - 9)		TP AWG 20	TP16	
SPARE	K	7)													

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AMS TCS

Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM TB2A			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	TB2A	REMARKS	TH2/1 A	HR2/1	HR2/2	HR2/3	TH2/2 A				REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
AH_OUT 8	A	2) - 9)	1								4) - 9)		TP AWG 20	TP17	
AH_OUT 8	B	2) - 9)		1							5) - 9)		TP AWG 20	TP18	
AH_OUT 8	C	2) - 9)			1						5) - 9)		TP AWG 20	TP19	
AH_OUT 8	D	2) - 9)				1					5) - 9)		TP AWG 20	TP20	
SPARE	E	7)													
AH_OUT 8 RTN	F	2) - 9)					1				4) - 9)		TP AWG 20	TP17	
AH_OUT 8 RTN	G	2) - 9)		2							5) - 9)		TP AWG 20	TP18	
AH_OUT 8 RTN	H	2) - 9)			2						5) - 9)		TP AWG 20	TP19	
AH_OUT 8 RTN	J	2) - 9)				2					5) - 9)		TP AWG 20	TP20	
SPARE	K	7)													

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Wake Heater Thermostat cabling

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CONNECTION IDENTIFICATION DATA

FROM TB2B			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	TB2B	REMARKS	TH2/1 B	HR2/1	HR2/2	HR2/3	TH2/2 B				REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BH_OUT 8	A	2) - 9)	1								4) - 9)		TP AWG 20	TP21	
BH_OUT 8	B	2) - 9)		3							5) - 9)		TP AWG 20	TP22	
BH_OUT 8	C	2) - 9)			3						5) - 9)		TP AWG 20	TP23	
BH_OUT 8	D	2) - 9)				3					5) - 9)		TP AWG 20	TP24	
SPARE	E	7)													
BH_OUT 8 RTN	F	2) - 9)					1				4) - 9)		TP AWG 20	TP21	
BH_OUT 8 RTN	G	2) - 9)		4							5) - 9)		TP AWG 20	TP22	
BH_OUT 8 RTN	H	2) - 9)			4						5) - 9)		TP AWG 20	TP23	
BH_OUT 8 RTN	J	2) - 9)				4					5) - 9)		TP AWG 20	TP24	
SPARE	K	7)													

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CONNECTION IDENTIFICATION DATA

FROM P121			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	P121	REMARKS	TH3/1 A	TH3/2 A	TH4/1 A	TH4/2 A	TH5/1 A	TH5/2 A	TH6/1 A	TH6/2 A	REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_1	A	1) - 11)	2								4) - 9)	1	TP AWG 20	TP25	to HR3
BUS A_HEATER_2	B	1) - 11)			2						4) - 9)	1	TP AWG 20	TP26	to HR4
BUS A_HEATER_3	C	1) - 11)					2				4) - 9)	1	TP AWG 20	TP27	to HR5
BUS A_HEATER_7	D														
BUS A_HEATER_8 SPARE	E	6)													
BUS A_HEATER_4_RTN	F	1) - 11)								2	4) - 9)	1	TP AWG 20	TP28	to HR6
BUS A_HEATER_1_RTN	G	1) - 11)		2							4) - 9)	1	TP AWG 20	TP25	to HR3
BUS A_HEATER_2_RTN	H	1) - 11)				2					4) - 9)	1	TP AWG 20	TP26	to HR4
BUS A_HEATER_3_RTN	J	1) - 11)						2			4) - 9)	1	TP AWG 20	TP27	to HR5
BUS A_HEATER_7_RTN	K														
BUS A_HEATER_4	L	1) - 11)							2		4) - 9)	1	TP AWG 20	TP28	to HR6
BUS A_HEATER_8_SPARE_RTN	M	6)													
BUS A_HEATER_5	N														
BUS A_HEATER_6	P														
SPARE	R	6)													
BUS A_HEATER_5_RTN	S														
BUS A_HEATER_6_RTN	T														
SPARE	U	6)													

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CONNECTION IDENTIFICATION DATA

FROM P121			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	P121	REMARKS	TH7/1 A	TH7/2 A	TH8/1 A	TH8/2 A	TH9/1 A	TH9/2 A			REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_1	A														
BUS A_HEATER_2	B														
BUS A_HEATER_3	C														
BUS A_HEATER_7	D	1) - 11)					2				4) - 9)	1	TP AWG 20	TP29	to HR9
BUS A_HEATER_8 SPARE	E														
BUS A_HEATER_4_RTN	F														
BUS A_HERATER_1_RTN	G														
BUS A_HEATER_2_RTN	H														
BUS A_HEATER_3_RTN	J														
BUS A_HEATER_7_RTN	K	1) - 11)						2			4) - 9)	1	TP AWG 20	TP29	to HR9
BUS A_HEATER_4	L														
BUS A_HEATER_8_SPARE_RTN	M														
BUS A_HEATER_5	N	1) - 11)	2								4) - 9)	1	TP AWG 20	TP30	to HR7
BUS A_HEATER_6	P	1) - 11)			2						4) - 9)	1	TP AWG 20	TP31	to HR8
SPARE	R														
BUS A_HEATER_5_RTN	S	1) - 11)		2							4) - 9)	1	TP AWG 20	TP30	to HR7
BUS A_HEATER_6_RTN	T	1) - 11)				2					4) - 9)	1	TP AWG 20	TP31	to HR8
SPARE	U														

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CONNECTION IDENTIFICATION DATA

FROM P221			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	P221	REMARKS	TH3/1 B	TH3/2 B	TH4/1 B	TH4/2 B	TH5/1 B	TH5/2 B	TH6/1 B	TH6/2 B	REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS B_HEATER_1	A	1) - 11)	2								4) - 9)	1	TP AWG 20	TP32	to HR3
BUS B_HEATER_2	B	1) - 11)			2						4) - 9)	1	TP AWG 20	TP33	to HR4
BUS B_HEATER_3	C	1) - 11)					2				4) - 9)	1	TP AWG 20	TP34	to HR5
BUS B_HEATER_7	D														
BUS B_HEATER_8 SPARE	E	6)													
BUS B_HEATER_4_RTN	F	1) - 11)								2	4) - 9)	1	TP AWG 20	TP35	to HR6
BUS B_HERATER_1_RTN	G	1) - 11)		2							4) - 9)	1	TP AWG 20	TP32	to HR3
BUS B_HEATER_2_RTN	H	1) - 11)				2					4) - 9)	1	TP AWG 20	TP33	to HR4
BUS B_HEATER_3_RTN	J	1) - 11)						2			4) - 9)	1	TP AWG 20	TP34	to HR5
BUS B_HEATER_7_RTN	K														
BUS B_HEATER_4	L	1) - 11)							2		4) - 9)	1	TP AWG 20	TP35	to HR6
BUS B_HEATER_8_SPARE_RTN	M	6)													
BUS B_HEATER_5	N														
BUS B_HEATER_6	P														
SPARE	R	6)													
BUS B_HEATER_5_RTN	S														
BUS B_HEATER_6_RTN	T														
SPARE	U	6)													

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CONNECTION IDENTIFICATION DATA

FROM P221			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	P221	REMARKS	TH7/1 B	TH7/2 B	TH8/1 B	TH8/2 B	TH9/1 B	TH9/2 B			REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS B_HEATER_1	A														
BUS B_HEATER_2	B														
BUS B_HEATER_3	C														
BUS B_HEATER_7	D	1) - 11)					2				4) - 9)	1	TP AWG 20	TP36	to HR9
BUS B_HEATER_8 SPARE	E														
BUS B_HEATER_4_RTN	F														
BUS B_HERATER_1_RTN	G														
BUS B_HEATER_2_RTN	H														
BUS B_HEATER_3_RTN	J														
BUS B_HEATER_7_RTN	K	1) - 11)						2			4) - 9)	1	TP AWG 20	TP36	to HR9
BUS B_HEATER_4	L														
BUS B_HEATER_8_SPARE_RTN	M														
BUS B_HEATER_5	N	1) - 11)	2								4) - 9)	1	TP AWG 20	TP37	to HR7
BUS B_HEATER_6	P	1) - 11)			2						4) - 9)	1	TP AWG 20	TP38	to HR8
SPARE	R														
BUS B_HEATER_5_RTN	S	1) - 11)		2							4) - 9)	1	TP AWG 20	TP37	to HR7
BUS B_HEATER_6_RTN	T	1) - 11)				2					4) - 9)	1	TP AWG 20	TP38	to HR8
SPARE	U														

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CONNECTION IDENTIFICATION DATA

FROM HR3			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR3	REMARKS	TH3/1 A	TH3/2 A	TH3/1 B	TH3/2 B					REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_1 (HR3)	1	5) - 9)	1								4) - 9)		TP AWG 20	TP39	
BUS A_HEATER_1 (HR3) RTN	2	5) - 9)		1							4) - 9)		TP AWG 20	TP39	
BUS B_HEATER_1 (HR3)	3	5) - 9)			1						4) - 9)		TP AWG 20	TP40	
BUS B_HEATER_1 (HR3) RTN	4	5) - 9)				1					4) - 9)		TP AWG 20	TP40	

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CONNECTION IDENTIFICATION DATA

FROM HR4			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR4	REMARKS	TH4/1 A	TH4/2 A	TH4/1 B	TH4/2 B					REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_2 (HR4)	1	5) - 9)	1								4) - 9)		TP AWG 20	TP41	
BUS A_HEATER_2 RTN (HR4)	2	5) - 9)		1							4) - 9)		TP AWG 20	TP41	
BUS B_HEATER_2 (HR4)	3	5) - 9)			1						4) - 9)		TP AWG 20	TP42	
BUS B_HEATER_2 RTN (HR4)	4	5) - 9)				1					4) - 9)		TP AWG 20	TP42	

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CONNECTION IDENTIFICATION DATA

FROM HR5			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR5	REMARKS	TH5/1 A	TH5/2 A	TH5/1 B	TH5/2 B					REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_3 (HR5)	1	5) - 9)	1								4) - 9)		TP AWG 20	TP43	
BUS A_HEATER_3 RTN (HR5)	2	5) - 9)		1							4) - 9)		TP AWG 20	TP43	
BUS B_HEATER_3 (HR5)	3	5) - 9)			1						4) - 9)		TP AWG 20	TP44	
BUS B_HEATER_3 RTN (HR5)	4	5) - 9)				1					4) - 9)		TP AWG 20	TP44	

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CONNECTION IDENTIFICATION DATA

FROM HR6			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR6	REMARKS	TH6/1 A	TH6/1 AC	TH6/2 A	TH6/2 AC	TH6/1 B	TH6/1 BC	TH6/2 B	TH6/2 BC	REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_4 (HR6)	1	5) - 9)		1							4) - 9)		TP AWG 20	TP45	
JUMPER			1	2							4) - 9)	1	AWG 20		
BUS A_HEATER_4 RTN (HR6)	2	5) - 9)				1					4) - 9)		TP AWG 20	TP45	
JUMPER					1	2					4) - 9)	1	AWG 20		
BUS B_HEATER_4 (HR6)	3	5) - 9)						1			4) - 9)		TP AWG 20	TP46	
JUMPER							1	2			4) - 9)	1	AWG 20		
BUS B_HEATER_4 RTN (HR6)	4	5) - 9)								1	4) - 9)		TP AWG 20	TP46	
JUMPER									1	2	4) - 9)	1	AWG 20		

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CONNECTION IDENTIFICATION DATA

FROM HR7			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR7	REMARKS	TH7/1 A	TH7/1 AC	TH7/2 A	TH7/2 AC	TH7/1 B	TH7/1 BC	TH7/2 B	TH7/2 BC	REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_5 (HR7)	1	5) - 9)		1							4) - 9)		TP AWG 20	TP47	
JUMPER			1	2							4) - 9)	1	AWG 20		
BUS A_HEATER_5 RTN (HR7)	2	5) - 9)				1					4) - 9)		TP AWG 20	TP47	
JUMPER					1	2					4) - 9)	1	AWG 20		
BUS B_HEATER_5 (HR7)	3	5) - 9)						1			4) - 9)		TP AWG 20	TP48	
JUMPER							1	2			4) - 9)	1	AWG 20		
BUS B_HEATER_5 RTN (HR7)	4	5) - 9)								1	4) - 9)		TP AWG 20	TP48	
JUMPER									1	2	4) - 9)	1	AWG 20		

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CONNECTION IDENTIFICATION DATA

FROM HR8			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR8	REMARKS	TH8/1 A	TH8/1 AC	TH8/2 A	TH8/2 AC	TH8/1 B	TH8/1 BC	TH8/2 B	TH8/2 BC	REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_6 (HR8)	1	5) - 9)		1							4) - 9)		TP AWG 20	TP49	
JUMPER			1	2							4) - 9)	1	AWG 20		
BUS A_HEATER_6 RTN (HR8)	2	5) - 9)				1					4) - 9)		TP AWG 20	TP49	
JUMPER					1	2					4) - 9)	1	AWG 20		
BUS B_HEATER_6 (HR8)	3	5) - 9)						1			4) - 9)		TP AWG 20	TP50	
JUMPER							1	2			4) - 9)	1	AWG 20		
BUS B_HEATER_6 RTN (HR8)	4	5) - 9)								1	4) - 9)		TP AWG 20	TP50	
JUMPER									1	2	4) - 9)	1	AWG 20		

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CONNECTION IDENTIFICATION DATA

FROM HR9			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HR9	REMARKS	TH9/1 A	TH9/1 AC	TH9/2 A	TH9/2 AC	TH9/1 B	TH9/1 BC	TH9/2 B	TH9/2 BC	REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
BUS A_HEATER_7 (HR9)	1	5) - 9)		1							4) - 9)		TP AWG 20	TP51	
JUMPER			1	2							4) - 9)	1	AWG 20		
BUS A_HEATER_7 RTN (HR9)	2	5) - 9)				1					4) - 9)		TP AWG 20	TP51	
JUMPER					1	2					4) - 9)	1	AWG 20		
BUS B_HEATER_7 (HR9)	3	5) - 9)						1			4) - 9)		TP AWG 20	TP52	
JUMPER							1	2			4) - 9)	1	AWG 20		
BUS B_HEATER_7 RTN (HR9)	4	5) - 9)								1	4) - 9)		TP AWG 20	TP52	
JUMPER									1	2	4) - 9)	1	AWG 20		

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Legenda

SW	Single Wire
TP	Twisted pair
TSP	Twisted Shielded pair

TOOLS

"A"	**Hand crimping tool**	CL-51	M22520/01-01	S/N : 773041
	Locator	CL-52	M22520/01-04	Red position
	Selection Position	3		
"B"	**Hand crimping tool**	CL-1	M22520/01-01	S/N : 55104
	Locator	CL-2	M22520/01-02	Red Position
	Selection Position	4		
"C"	**Hand crimping tool**	CL-51	M22520/01-01	S/N : 773041
	Locator	CL-52	M22520/01-04	Red Position
	Selection Position	3		
"D"	**Hand crimping tool**	CL-280	M22520/01-01	S/N : 615708
	Locator	CL-285	M22520/01-04	Red Position
	Selection Position	1		

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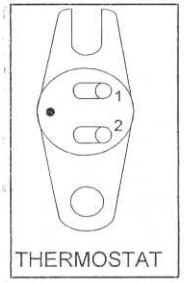
Notes

1) CRIMP WIRE TP AWG 20 TO MALE PIN P/N : M39029/58-363 (OF CONNECTOR J124 - J224 AND P121 - P221) USING HAND CRIMPING TOOL "A" .

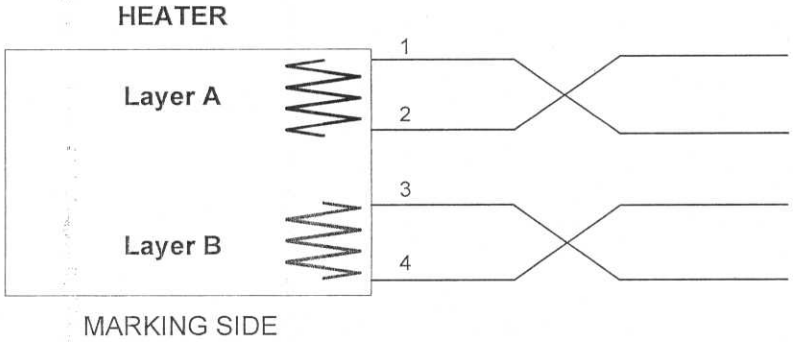
2) CRIMP WIRE TP AWG 20 TO MALE PIN P/N : M39029/1-101 (OF TERMINAL JUNCTION MODULE) USING HAND CRIMPING TOOL " B ".

3) CRIMP WIRE TP AWG 20 TO SOCKET PIN P/N : M39029/57-357 (OF CONNECTOR P126) USING HAND CRIMPING TOOL " C ".

4) FOR CONNECTING THE THERMOSTAT SOLDER THE WIRE AWG 20 TP ACCORDING TO ECSS-Q-70-08A AND PROTECT JUNCTION WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220.



5) FOR CONNECTING THE HEATER SOLDER THE WIRE ACCORDING TO ECSS-Q-70-08A AND PROTECT JUNCTION WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220, USE THE WIRE CONNECT OF HEATER .



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6) ASSEMBLE SPARE CONTACT MALE P/N : M39029/58-363

7) ASSEMBLY SPARE CONTACT MALE P/N :M39029/1-101

8) ASSEMBLY SPARE CONTACT FEMALE P/N : M39029/57-357

9) MARKER THE WIRE WITH THE NAME OF ITEM END THE NAME OF PIN (EX. TB1/6A-A/1)
USE HEAT-SHRINKABLE INSULANT SLEEVE p/n : TMS-SCE-1K-3/16-2.0-9

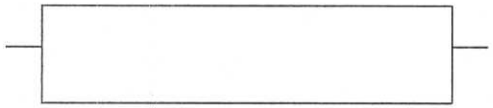
10) CRIMP WIRE TP AWG 24 TO MALE PIN P/N : M39029/58-363 (OF CONNECTOR J125- J225) USING HAND CRIMPING TOOL " D ".

11) MARKER THE CABLE WITH THE NAME OF CONNECTOR
USE HEAT-SHRINKABLE INSULANT SLEEVE p/n : TMS-SCE-1K-3/16-2.0-9

12) THE HEATER IS MOUNTED ON THE CAB UNIT SEE DRAWING N° 48-MS-02TCS-000.00.00

13) FOR CONNECTING THE RESISTOR SOLDER THE WIRE ACCORDING TO ECSS-Q-70-08A AND PROTECT JUNCTION WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220,

RER 45



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Wake Heater Thermostat cabling
Parts list

CARLO GAVAZZI SPACE S.p.A.

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POS.	DESCRIPTION	SPECIFICATION / PROC. SPEC	SUPPLIER	PART NUMBER / ID. CODE	ISSUE REV.	CGS CODE / MATERIAL	-01 Q.TY	-02 Q.TY	-03 Q.TY	-04 Q.TY	DATA CODE	S/N	REMARKS
1	WIRE AWG 20	ESA/SCC 3901/012	RAYCHEM	ESA/SCC 3901/012-16B									
2	WIRE AWG 24	ESA/SCC 3901/012	RAYCHEM	ESA/SCC 3901/012-14B									
3	CABLE MARKER		RAYCHEM	TMS-SCE-1K-3/16-2.0-9									
4	HEAT-SHRINKABLE INSULATION SLEEVE		RAYCHEM	RT-220									